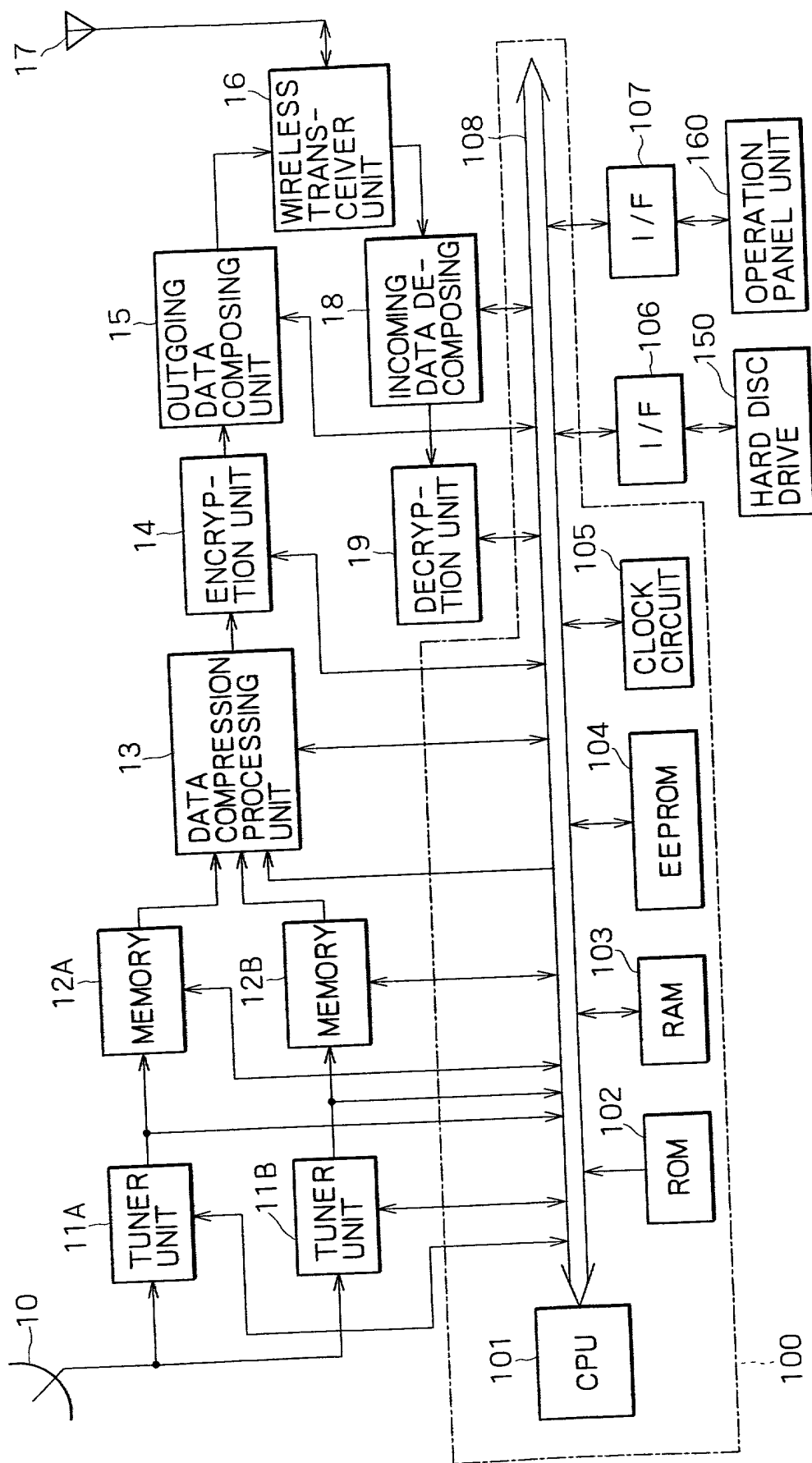
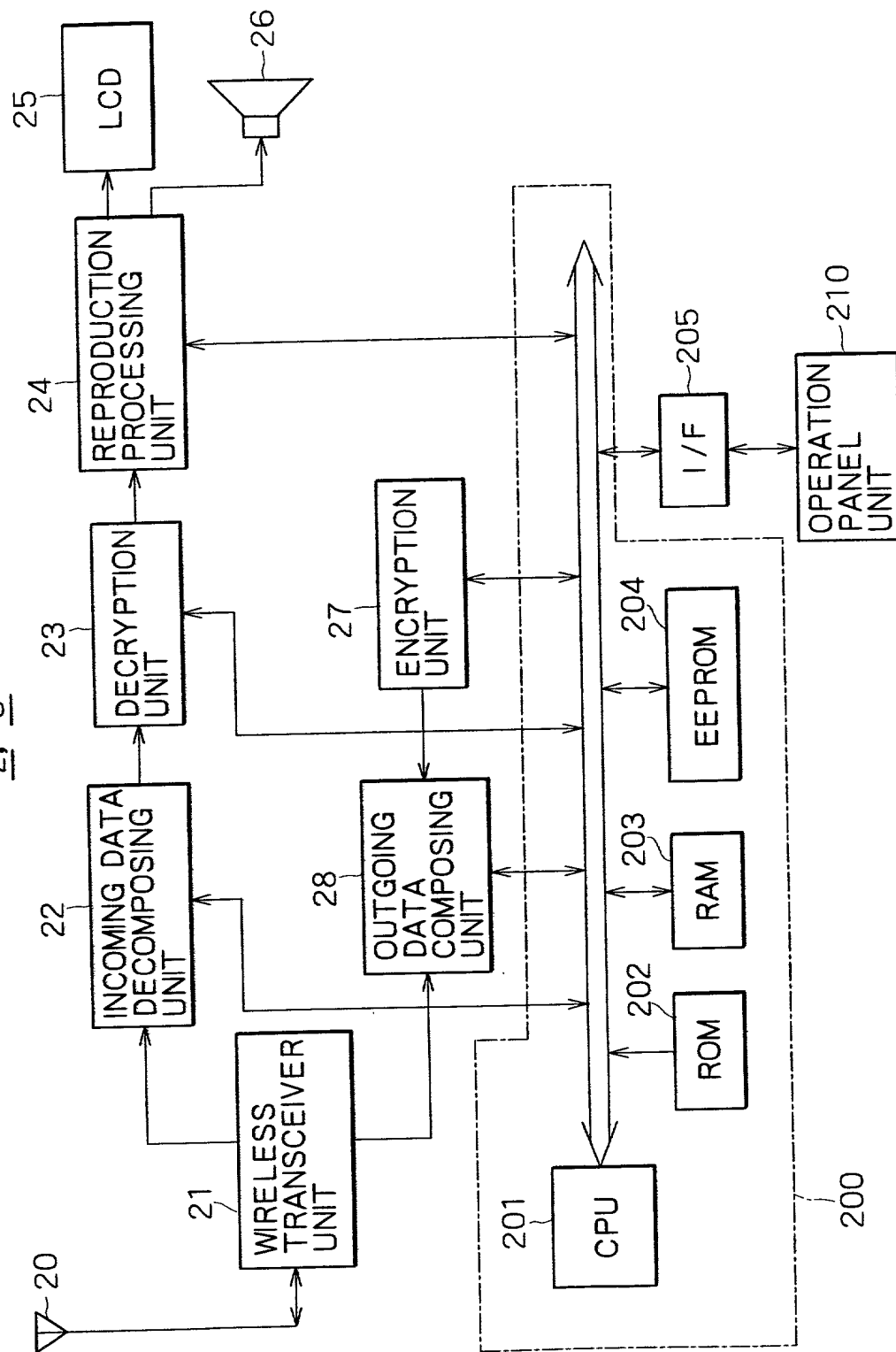


FIG. 2



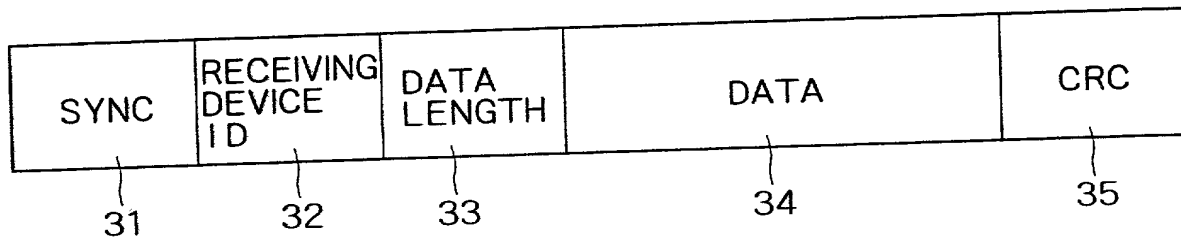
# FIG. 3

2, 3



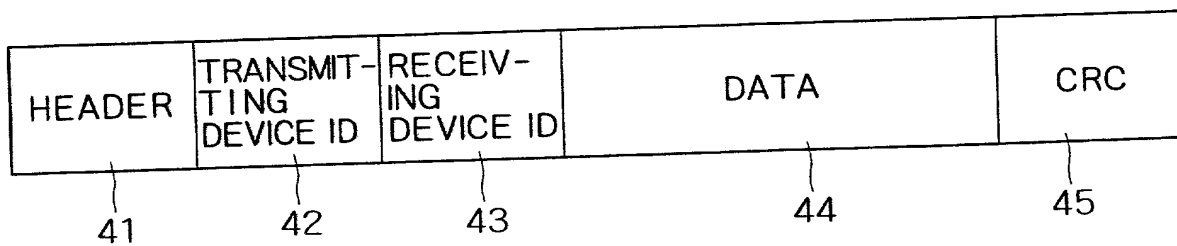
# FIG. 4

LAYOUT OF PACKET IN WHICH TO  
TRANSMIT MAIN DATA



# FIG. 5

LAYOUT OF PACKET IN WHICH TO  
TRANSMIT REQUEST DATA



# FIG. 6

<div> <div>NETWORK</div> <div>TECHNOLOGY</div> </div>	ON THE SAME NETWORK (e.g., HOUSEHOLD)		NEIGHBORING NETWORK (e.g., NEXT-DOOR NEIGHBOR)
	DEVICE ID=01	DEVICE ID=02	DEVICE ID=01
ENCIPHERMENT	DECRYPTABLE	DECRYPTABLE	NON- DECRYPTABLE
DEVICE ID	ONLY PACKETS HAVING THE OWN DEVICE ID OR PACKETS DES- -TINED FOR ALL DEVICES ARE RECEIVABLE	ONLY PACKETS HAVING THE OWN DEVICE ID OR PACKETS DES- -TINED FOR ALL DEVICES ARE RECEIVABLE	

# FIG. 7

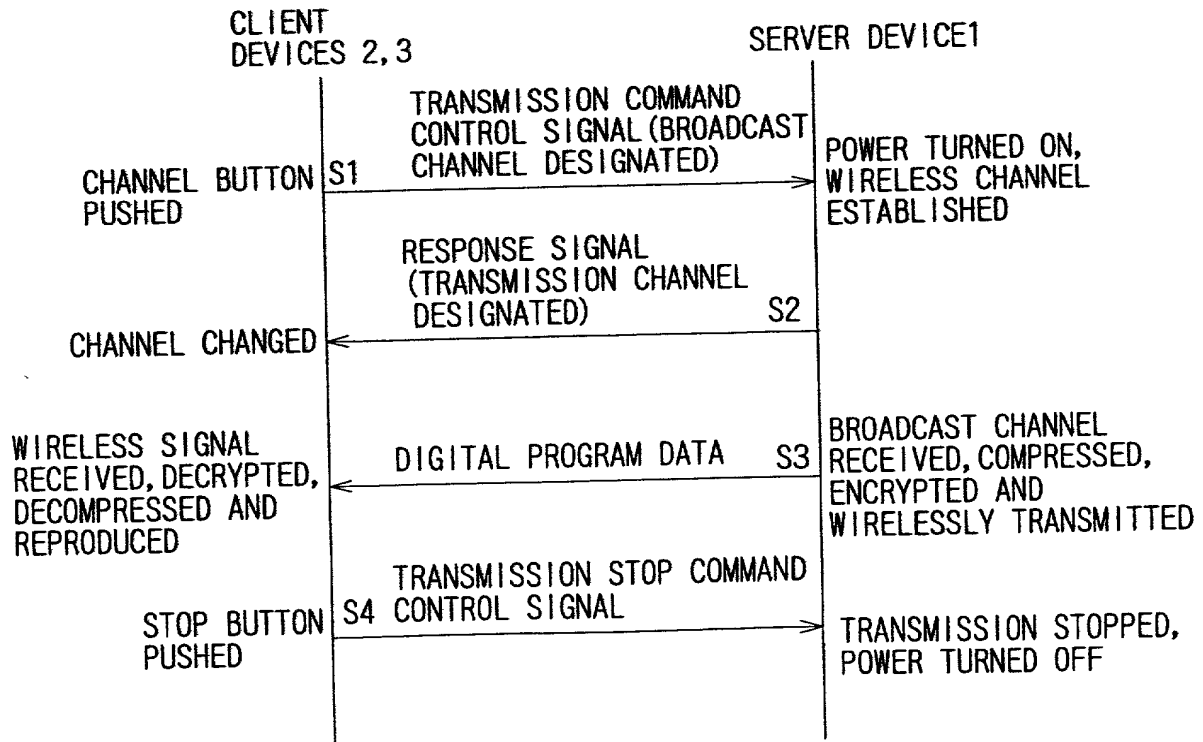


FIG. 8A

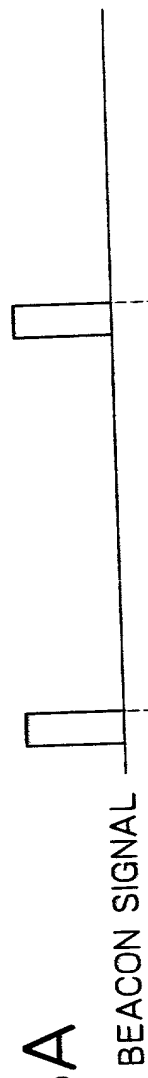


FIG. 8B

CHANNELS 1 AND 2 IN USE

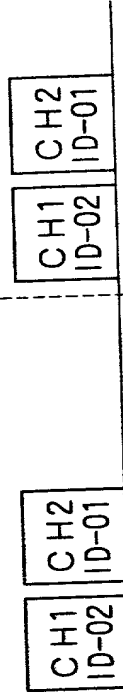


FIG. 8C

CHANNEL 2 ALONE IN USE

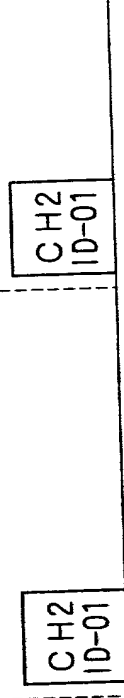
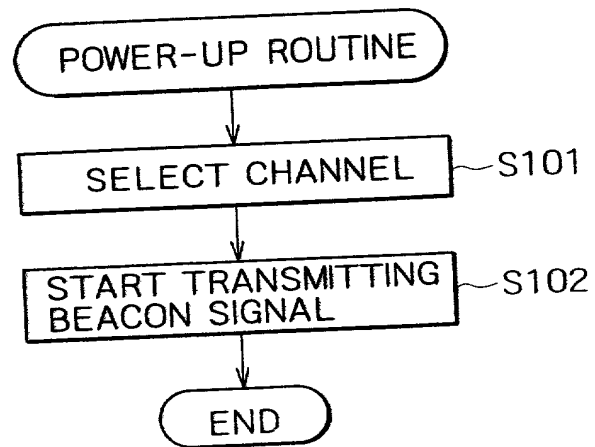


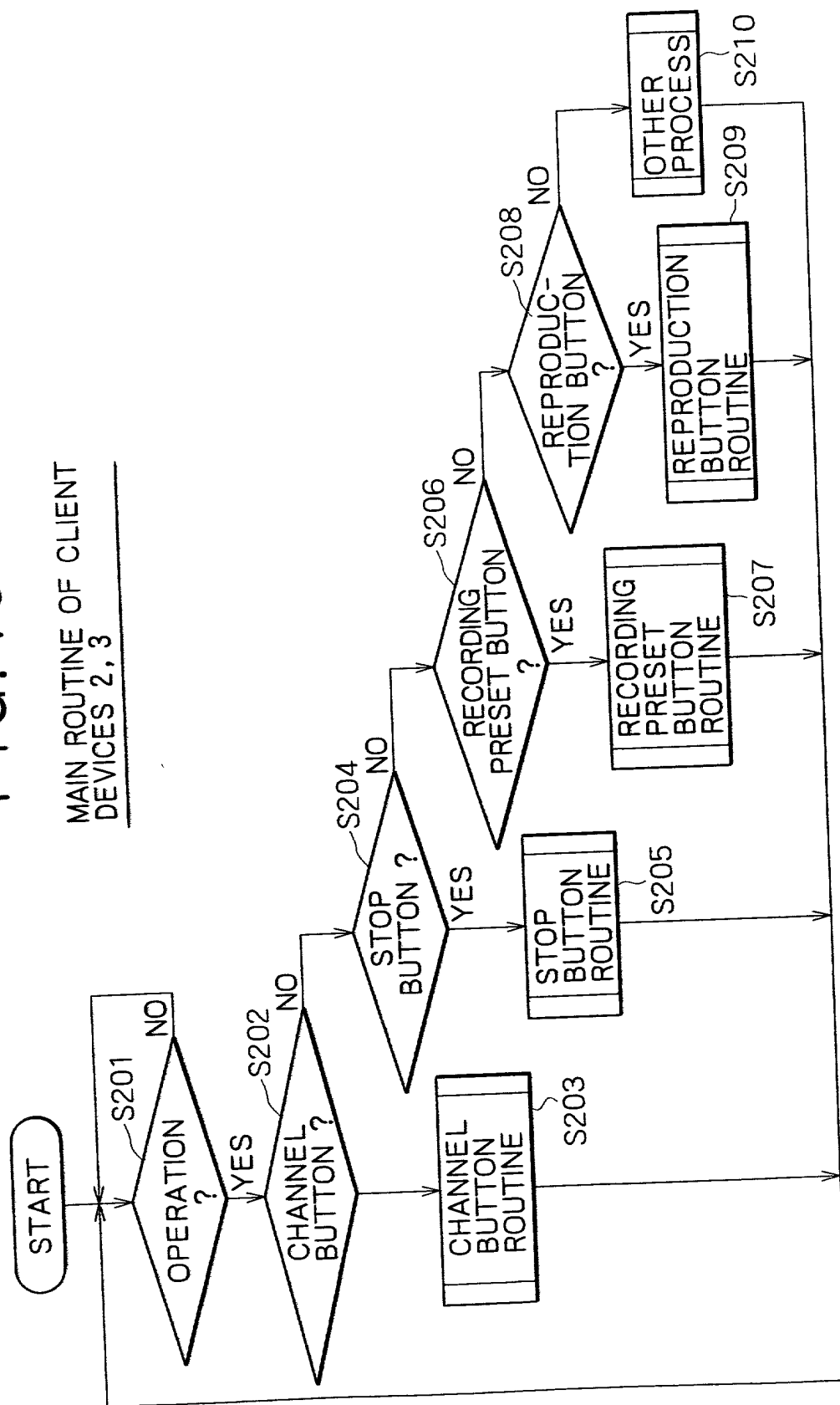
FIG. 9



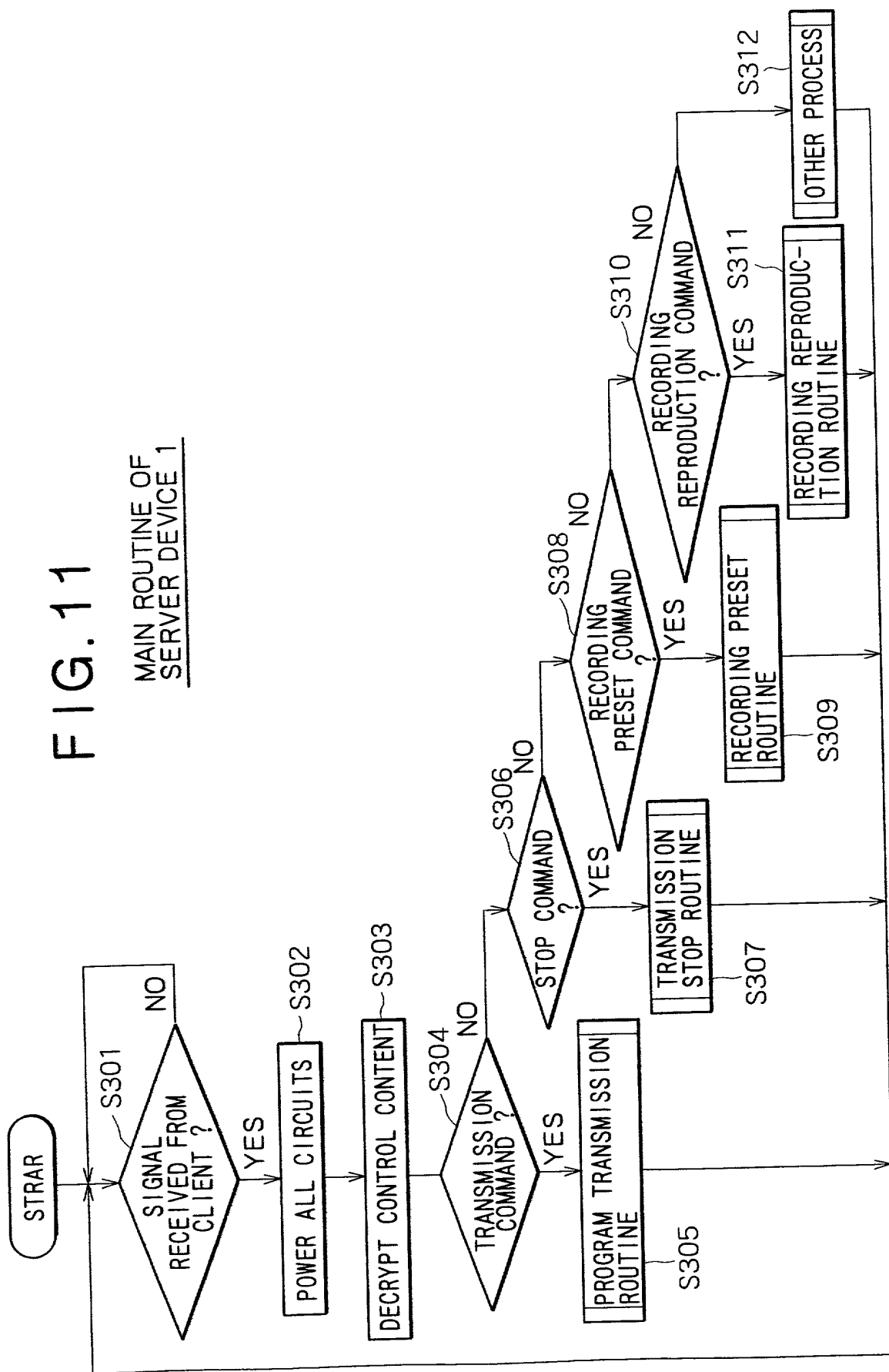
POWER UP PROCESSING  
OF SERVER DEVICE

# FIG. 10

MAIN ROUTINE OF CLIENT  
DEVICES 2, 3

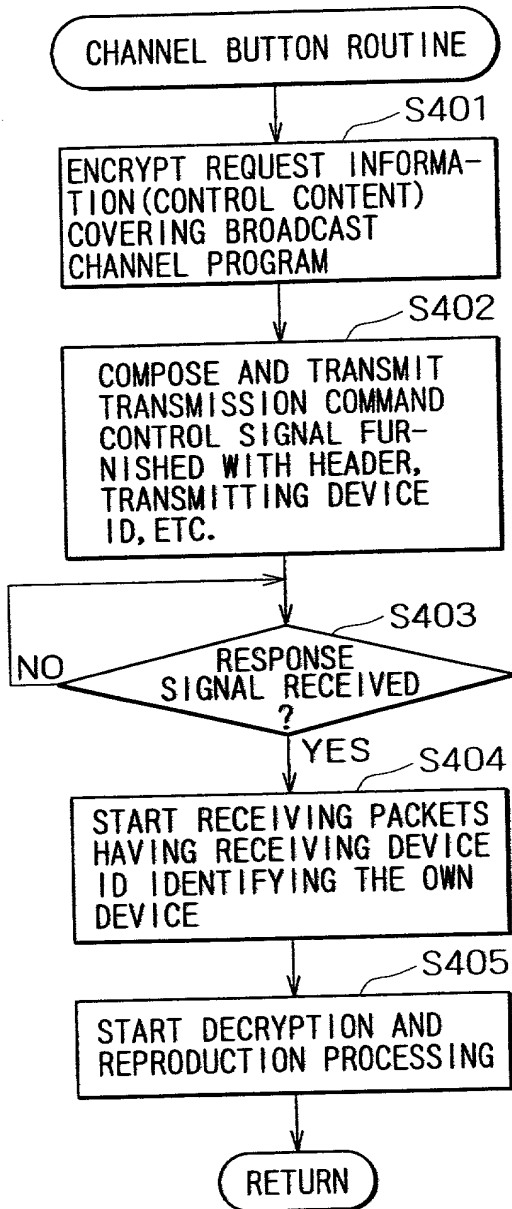






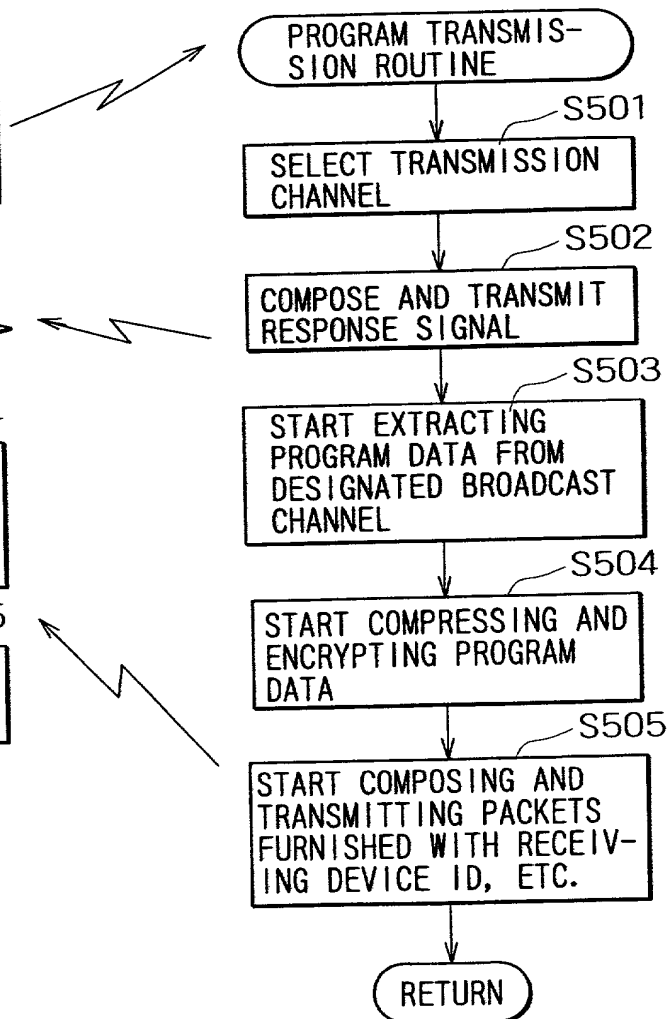
# FIG. 12A

CLIENT-SIDE  
PROCESSING



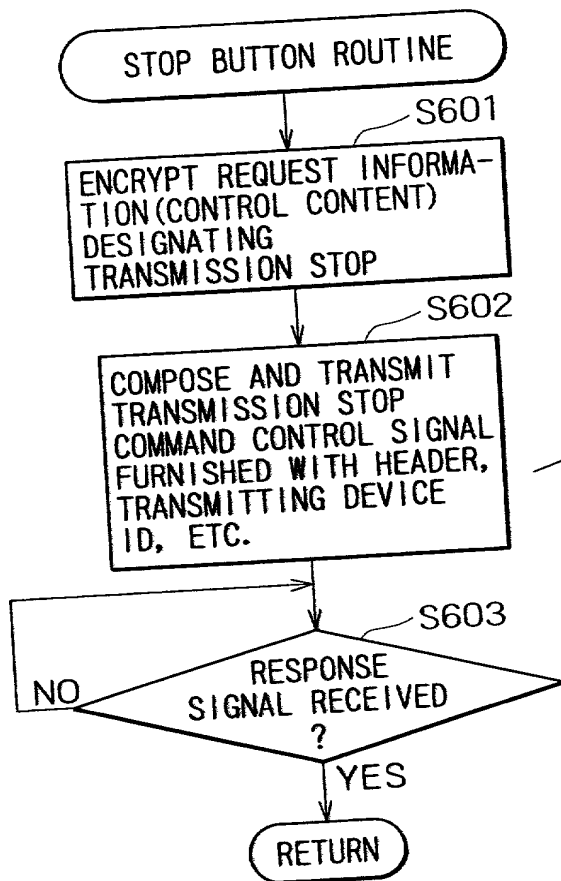
# FIG. 12B

SERVER-SIDE  
PROCESSING



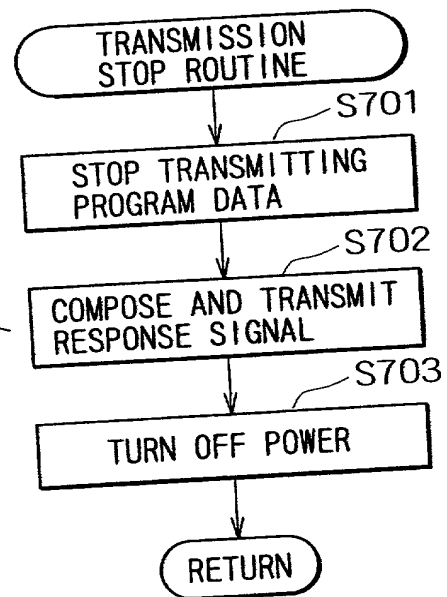
# FIG. 13A

## CLIENT-SIDE PROCESSING

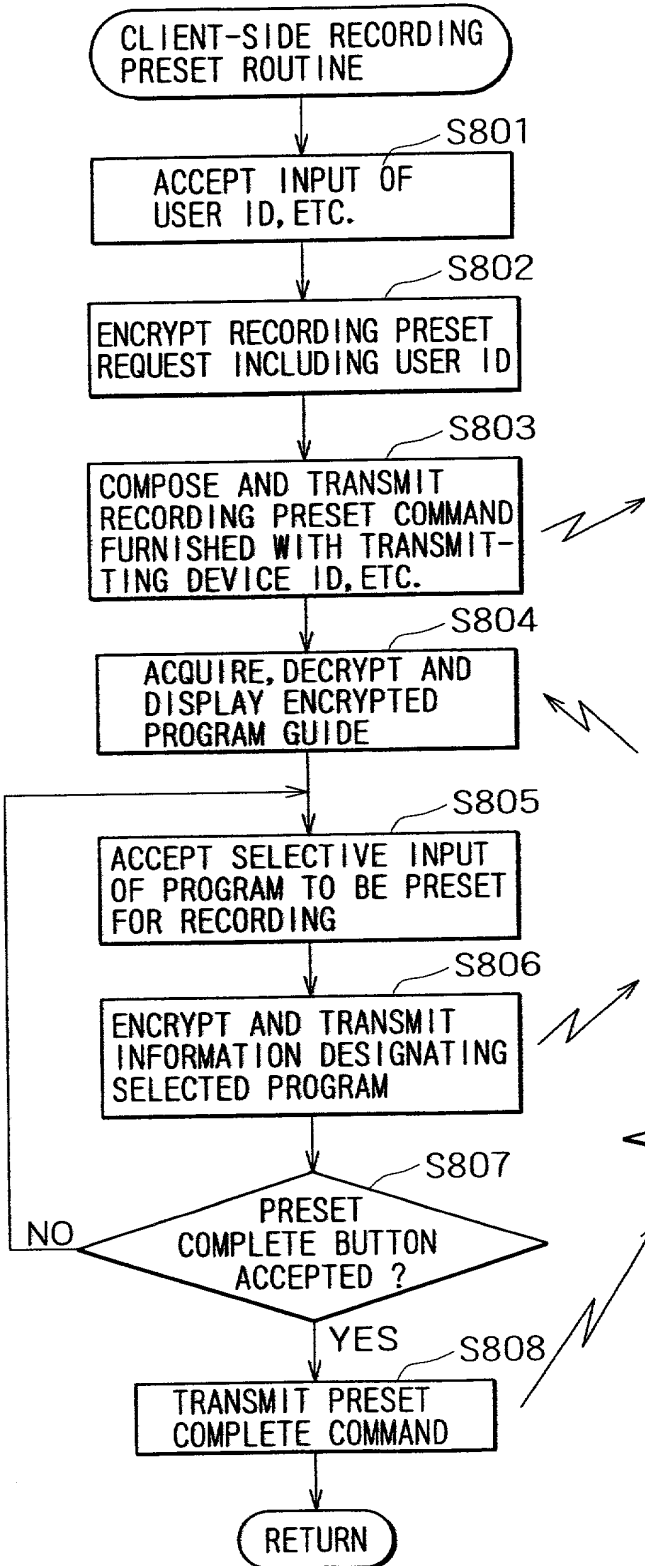


# FIG. 13B

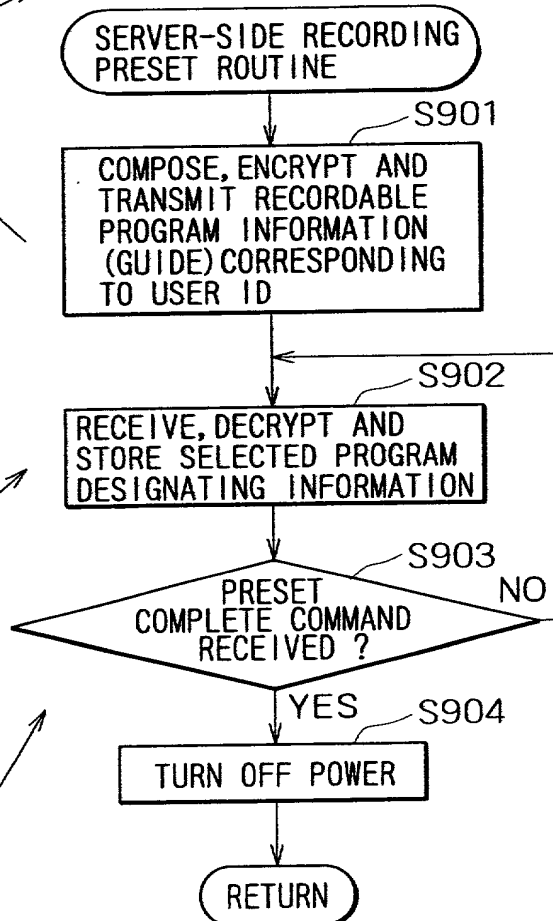
## SERVER-SIDE PROCESSING



# FIG. 14A



# FIG. 14B



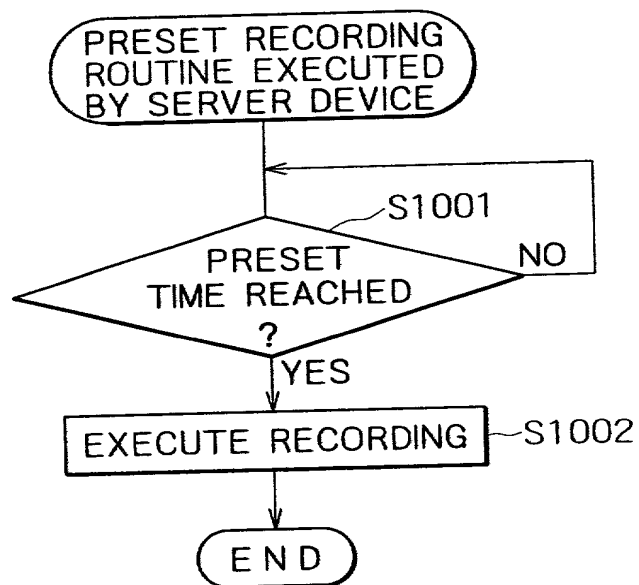
# FIG. 15

USER ID	RESTRICTIONS	DESCRIPTION
001	FREE	NO RESTRICTIONS
002	X (FOR ADULTS ONLY)	ADULTS-ONLY (X-RATED) PROGRAMS ARE UNAVAILABLE
003	X (FOR ADULTS ONLY)	ADULTS-ONLY (X-RATED) PROGRAM ARE UNAVAILABLE
	R (UNFIT FOR CHILDREN UNDER 16)	PROGRAMS RATED AS UNFIT FOR CHILDREN UNDER 16 (R-RATED) ARE UNAVAILABLE
.	.	
.	.	
.	.	
.	.	
.	.	

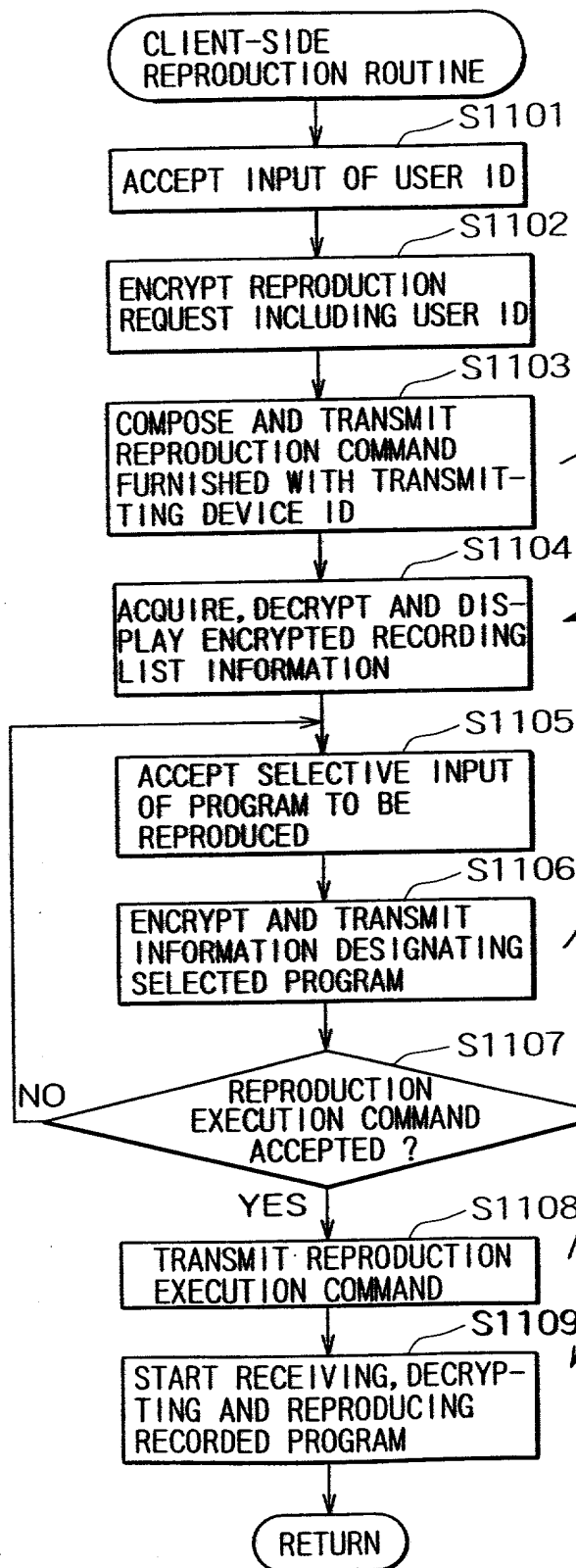
# FIG. 16

SEQ- No	PRESETTING DEVICE ID	USER ID	START TIME	END TIME	CH	MONITOR CLASSIFICATION	
						USER	DEVICE
1	01	003	11:00, 8/25/2000	12:00, 8/25/2000	5	1	1
2	02	003	11:30, 8/25/2000	13:30, 8/25/2000	8	1	0
3	01	002	11:00, 8/25/2000	12:00, 8/25/2000	7	0	1
.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.

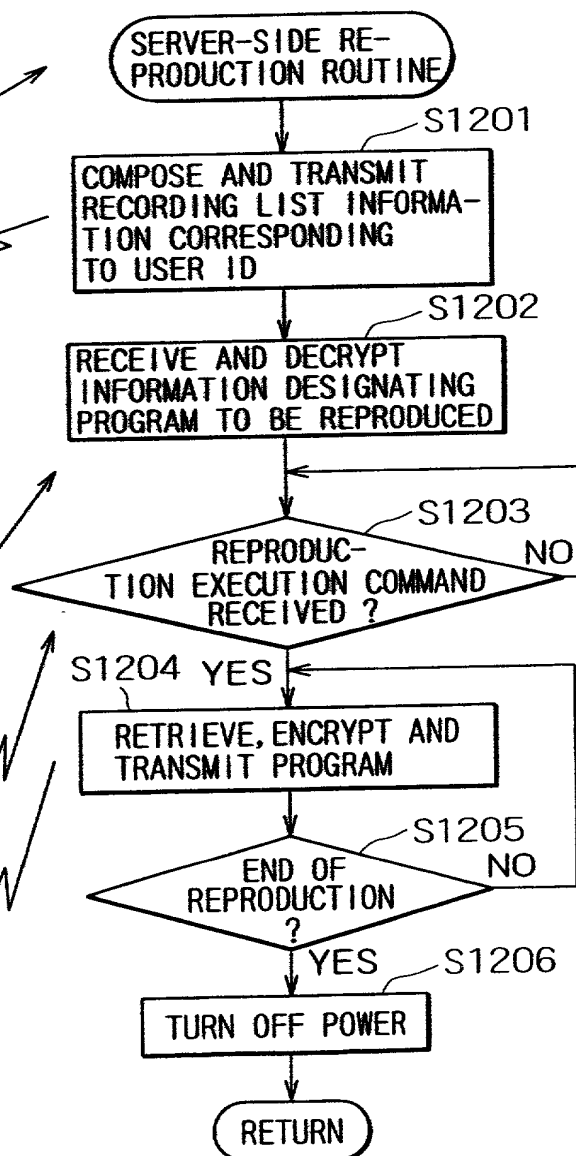
FIG. 17



# FIG. 18A



# FIG. 18B





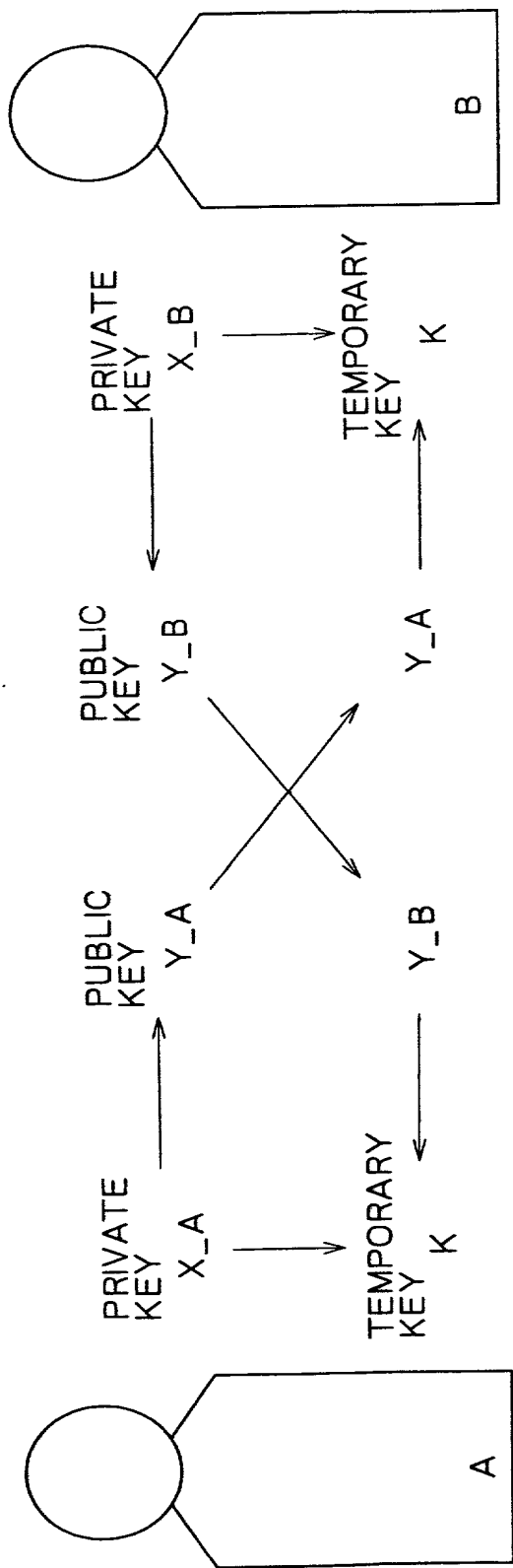


FIG. 19

FIG. 20

	ON DEVICE A SIDE	ON DEVICE B SIDE
PRIVATE KEY	X_A	X_B
PUBLIC KEY	$Y_A = g^X (X_A) \bmod p$	$Y_B = g^X (X_B) \bmod p$
TEMPORARY KEY	$K = Y_B^X (X_A) \bmod p$ $= g^X (X_A \cdot X_B) \bmod p$	$K = Y_A^X (X_B) \bmod p$ $= g^X (X_B \cdot X_A) \bmod p$